

UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION

PATENT NO. : 7,584,431 B2  
APPLICATION NO. : 10/724778  
DATED : September 1, 2009  
INVENTOR(S) : Kazushige Hiroi et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

ON THE TITLE PAGE:

Please correct Item (12) to read as follows:

(12) United States Patent

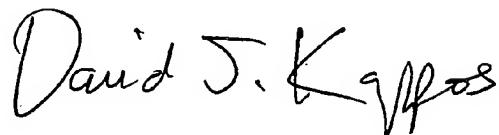
Kazushige Hiroi et al.

Please correct Item (75) to read as follows:

(75) Inventors: Hiroi Kazushige Kazushige Hiroi, Machida (JP);  
Nobukazu Kondo, Ebina (JP); Tsutomu  
Hara, Yokohama (JP); Tooru Yokozawa,  
Yokohama (JP); Kazuchika Ogiwara,  
Fujisawa (JP); Masaya Umemura,  
Yokosuka (JP); Shinichiro Okamura,  
Yokohama (JP)

Signed and Sealed this

First Day of June, 2010



David J. Kappos  
Director of the United States Patent and Trademark Office